DOCUMENT RESUME

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IDENTIFIERS	*Insulation

ABSTRACT

Presented is an annotated bibliography of energy-related materials for the consumer. Materials (which include books, videotape recordings, magazines, pamphlets, and other media) are arranged by subject area. These area include: (1) earth sheltered buildings; (2) fuels; (3) general (including general energy conservation and insulation); (4) heat (including coal/gas stoves and ventilation); (5) solar energy (focusing on windows, panels, and greenhouses); (6) special (presenting materials for city planners, reference materials, and miscellaneous items); and (7) wind power. A separate listing of pamphlets, magazines, and video titles is also provided under the heading Resources on Energy. Citations (other than those appearing in the pamphlet/magazine lists in the Resources on Energy section) include call number, author, title, publisher, date of publication, number of pages, and an annotation which identifies what is unique or special about the item. (JN)

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AMES ENERGY

A CONSUMER'S GUIDE TO ENERGY CONSERVATION

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AMES ENERGY: A CONSUMER'S GUIDE TO ENERGY CONSERVATION

Compiled by the staff of the
Information Services Department
Ames Public Library

and published with a grant from the
City of Ames Staff Energy Committee

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1983

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PREFACE

The Mayor of Ames established a Red Alert Energy Committee in 1980 and charged it with examining energy-related problems of the community and setting forth possible solutions. One recommendation that the Committee made to the City Council was to hire an Energy Officer. The Council decided that existing City staff could accomplish many of the functions of an Energy Officer, and thus it established the Staff Energy Committee in March, 1981.

This Committee prepared an overall energy program that included three major areas: (1) public information, (2) in-house conservation efforts, and (3) an energy policy plan.

One of the goals of the Public Information Program is to provide information on energy conservation. In keeping with this goal, the City of Ames Staff Energy Committee, with the approval of the City Council, granted $5,000 to the Ames Public Library to purchase energy-related materials for the consumer.

Representatives of the Staff Energy Committee and selected staff of the Library began the task of choosing the materials in September, 1982. Library staff assembled a comprehensive list of items in all areas of energy conservation, and the selection committee recommended those items they felt to be most needed. From this list, Library staff then selected $4,500 worth of books, video tapes, magazines, pamphlets, and other materials. The orders were sent out in early December. By March most of the materials had arrived, and Library staff began compiling this bibliography, which was printed with the remaining $500 of the grant.

We thank the following members of the Staff Energy Committee who kindly took the time to pore over bibliographies and publishers' lists to offer their recommendations: Dean Brennan, Ellen Landon, and Don Setterberg. Laurent Hodges also gave valuable selection assistance.

The Ames Public Library is pleased to have this opportunity to offer additional materials to the public thanks to the cooperation of the City of Ames Staff Energy Committee.

Darien Fisher
Head, Information Services Department

George T. Lawson
Director, Ames Public Library

INTRODUCTION

The materials in this bibliography are organized by subject area. There are separate categories for magazines and for videocassettes; videocassettes are also included in the appropriate subject divisions.

A dagger (†) at the end of the citation identifies items purchased with the energy grant. All of the energy grant materials are annotated, as well as many of the items previously purchased by the Library that relate to energy conservation.

Each citation begins with the call number of the item. The call number should be understood to include the first three letters of the first word below the call number (usually an author's last name; sometimes a title). The rest of the citation gives the author, title, publisher, date of publication, and number of pages. The annotation that follows the citation is designed to identify what is unique or special about a given item.

We plan to update this bibliography periodically, and we would appreciate suggestions for making it more useful.

KEY

R....(Precedes call number.) A reference item that does not check out.

VC...(Precedes call number.) A one-half inch VHS videocassette.

†....An item bought with energy grant funds.

Call Number → 697.78

Author, Title → And erson, Bruce. The solar home book.

Publisher, Date, # Pages → Cheshire, 1976. 297 p.

Annotation → Presentation of the basic principles of solar architecture.

RESOURCES ON ENERGY

In addition to the print and audio-visual items listed in this bibliography, there are several places to go for further information.

Vertical file:
The vertical file contains pamphlet-like materials on a variety of subjects. The files on energy conservation and related areas contain newspaper clippings from the Ames Tribune and Des Moines Register, and informational pamphlets from government agencies, state agencies, and private organizations. See the following subject headings: Ames--Energy; Energy; Energy, Alternate; Energy Conservation; Fireplaces; Insulation; Iowa--Energy; Iowa--Solar Energy; Solar Energy; Stoves.

There is also a file drawer of materials from the Energy Policy Steering Committee Energy Task Force.

Hotlines:
Conservation and renewable energy inquiry and referral service:
1-800-523-2929.

Iowa Energy Policy Council:
1-800-532-1114.

Agencies:
Energy Extension Service
110 Marston Hall
Iowa State University
Ames, IA 50011
294-4266

For information and tours of the Iowa State University Energy Research House call:
Roy Crawford 294-8660.

Iowa Energy Policy Council
215 East Seventh Street
Des Moines, IA 50319
281-6483

PAMPHLETS

Two binders contain collected pamphlets on a variety of energy topics. One binder is located in the reference collection under the call number R 69/ ENE. Another (call number 69/ ENE) may be checked out for three weeks.

A series of pamphlets is also available on a spinner rack. These pamphlets check out for one week. The following titles are included in the series:

Axes & Chainsaws: Use and maintenance
Build a Pole Woodshed
Build Attractive Hearths
Building a Solar-Heated Pit Greenhouse
Building and Using Cold Frames
Buying and Installing a Wood Stove
Chimney and Stove Cleaning
Choosing Solar Glazes
Circulate Heat From Your Stove
Coal Heat
Curing Smoky Fireplaces
Cut Those Energy Bills
Energy Conservation in the Home
Fast-growing Firewood
Link a Wood Stove to Your Fireplace
Make Your Own Insulated Window Shutters
Making Wood Boxes and Coal Bins
Save $$ on Firewood
The Waterless Toilet
Weatherize Your Home
What to do When the Power Fails
Window Heat Loss: How to Stop it Cold!
Wood Furnaces and Boilers
Woodlot Management

MAGAZINES

Although many other magazines in the APL collection contain articles on energy conservation, the following are consistently interested in energy-related topics.

Alternative Sources of Energy †
Contains regular columns on new products, energy alternatives, methane production, and wind power. Many special issues have been devoted to single areas of energy conservation. Articles are designed to be of practical use for the average citizen.

CoEvolution Quarterly
This magazine is published by the founder and editor of the Whole Earth Catalog, and follows the same approach. Its purpose is to alert people to information sources that will improve their individual lifestyle and the lifestyle of the community. Contains numerous illustrations.

Earth Shelter Living †

Family Handyman
A magazine for do-it-yourself homeowners, with articles on all aspects of home repair and remodeling. Special features, such as "Alternative Housing" with an article on earth shelter living, are of interest. Articles are clearly written and illustrated, and very interesting.

Home
Energy conservation, decorating and remodeling, and solar homes are just a few of the topics covered in a recent issue. Some of the regular features include Home Plans and Dollars & Sense.

Homeowner's How To
Practical articles on repairing, remodeling and improving your home.

Iowa Energy Bulletin
News and information on energy issues in Iowa. Articles cover such topics as kerosene heaters, woodburning safety, and solar heat, as well as upcoming conferences. The Energy Q & A column is helpful.

The Mother Earth News
Contains how-to-do-it articles on energy conservation and ecology; well-illustrated and informative.

The Old-House Journal
Hints on typical renovation problems with nineteenth-century urban homes. Energy conservation measures are featured.

Organic Gardening and Farming
A how-to-do-it approach to gardening without chemicals. Greenhouses and energy-conservation measures are often discussed.

Popular Science Monthly
"Energy News" is one of the regular sections featured in this magazine. Special features also highlight energy conservation issues.

Rodale's New Shelter
Energy conservation issues are strongly featured in this magazine. Special articles may cover solar or earth sheltered housing. Regular features cover all aspects of maintaining and improving your shelter, with excellent illustrations and diagrams.

Small Farm Energy Project Newsletter †

Solar Age †
Popular and technical articles on all aspects of solar energy.

Solar Living
Merged with Rodale's New Shelter magazine in October 1981.

VIDEO

VC 690.8
Attached solar greenhouse. Bullfrog Films, 1982. 28 min. Color. †

Solar greenhouses, as a rule, use no outside fuel and are net contributors of heat to the main part of the house. This film explains the basic principles of greenhouse design, shows one being built and glazed, and tours a range of different greenhouses from low-cost owner-built structures and kits to deluxe custom-designed and built greenhouses. (Credits: Produced by Rodale Press with Bullfrog Films.)

VC 333.79
Baker, K., and V. Harding. Energy and lifestyle. Iowa State University, 1977. 28 min. Color. †

We have been using energy at an ever increasing rate over the past several generations. What does our lifestyle have to do with the amount of energy we use?

VC 697.78
Berkland, William R. Passive solar energy. Iowa State University, 1979. 28 min. Color. †

Shows how both old and new buildings may utilize passive solar energy without special pumps or fans. Owners, builders and architects discuss features of passive solar homes.

VC 697
Bill Loosley's heat pump. Bullfrog Films, 1976. 10 min. Color. †

Bill Loosley lives in Canada, where the ground freezes solid three or more feet down. But since 1951, he has operated a heat pump that provides a return in heat six times greater than the energy required to run it. Bill heats his house by gathering warmth from the ground below frost level (which remains a year round temperature of 40-45 degrees F.) and pumping it indoors. (Credits: Produced by the National Film Board of Canada.)

VC 697.78
Building the Brookhaven House. Bullfrog Films, 1981. 25 min. Color. †

A record of the construction of the Dept. of Energy's prototype passive solar home--built with standard techniques and materials. The film shows how anyone can adapt standard housing designs to incorporate passive solar features which will save up to 75% of the homeowner's fuel bills. (Credits: Produced by the Department of Energy.)

VC 728.6
Design with the sun: passive solar architecture. Bullfrog Films, 1980. 28 min. Color. †

A tour of selected passive solar homes across the U.S. (Credits: Produced by Susan and Bill Yanda; film by Mario and Dana Balibrera.)

VC 333.79
[Energy conservation] Iowa State University, 1980. 30 min. Color. †

Contents: Alcohol for farm fuel--Cooking with a solar oven--Passive solar energy, four keys--Planning to use the sun--Solar energy for hog buildings--Wind power in Iowa. (See annotations below.)

VC 333.79
[Energy conservation] Alcohol for farm fuel. Iowa State University, 1980. 5 min. Color. †

Using corn for fuel can help combat the shortage of fossil fuels. Two Iowa farmers describe their operations for making fuel alcohol.

VC 333.79
[Energy conservation] Cooking with a solar oven. Iowa State University, 1980. 5 min. Color. †

Demonstrates how a solar oven works, the theory behind it, and how to build your own.

VC 333.79
[Energy conservation] Passive solar energy, four keys. Iowa State University, 1980. 5 min. Color. †

Discusses four key points to remember when adding passive solar features to a building: collection, storage, distribution and controls.

VC 333.79
[Energy conservation] Planning to use the sun. Iowa State University, 1980. 5 min. Color. †

Orientation of your house, use of overhangs, placement of windows, and landscaping ideas are some of the topics discussed in this program showing how a home's energy consumption can be reduced through wise use of passive solar energy.

VC 333.79
[Energy conservation] Solar energy for hog buildings. Iowa State University, 1980. 5 min. Color. †

We are introduced to an Iowa farmer who has designed a hog building with specific features that take advantage of the sun's energy.

VC 333.79
[Energy conservation] Wind power in Iowa. Iowa State University, 1980. 5 min. Color. †

Discusses the factors and problems involved in using a windmill in Iowa. A windmill being tested at I.S.U. is shown, along with various ways of storing wind power.

VC 690.869
Energy savers, active solar energy. Described by Donald Spencer. IPBN, 1980. 29 min. Color. †

Highlights economic factors, hardware variations, and considerations for prospective buyers.

VC 697.78
Energy savers, adding passive solar to existing homes. IPBN, 1980. 29 min. Color. †

Discusses retrofit considerations including site planning, landscaping and doing it yourself. Visits an attached greenhouse as well as an old, retrofitted farmhouse.

VC 678.35
Energy savers, caulking and weatherstripping. IPBN, 1980. 27 min. Color. †

Caulking and weatherstripping products and tools are shown and their appropriate uses discussed. Shows the process of applying these materials to an older home.

VC 728
Energy savers, earth-sheltered housing. Discussed by Brent Anderson. IPBN, 1980. 28 min. Color. †

Design considerations of earth-sheltered housing are discussed; special attention is given to common misconceptions and institutional barriers.

VC 693.83
Energy savers, insulation. IPBN, 1980. 28 min. Color. †

Detailed explanation of insulation types, tools, and safety considerations. The insulation of a house is shown.

VC 697.78
Energy savers, passive solar energy for new construction. IPBN, 1980. 29 min. Color. †

Explains the principles of passive space heating, including collection, storage, and distribution. Shows passive solar homes in Iowa.

VC 696.6
Energy savers, solar water heating and water energy saving devices. IPBN, 1980. 29 min. Color. †

Shows common attachments available for conserving hot water, demonstrates how to install such devices and how to insulate a water heater. Discusses active solar systems for domestic hot water.

VC 621.45
Energy savers, wind energy. Reviewed by Dr. Leo Soderholm and Dr. Paul Waite. IPBN, 1980. 28 min. Color. †

Reviews history, current appli-

cations, and future of wind energy. Describes types of wind generators and how they work.

VC 697.22
Energy savers, woodburning. IPBN, 1980. 28 min. Color. †

Extension forester Paul Wray considers all aspects of warming with wood: stove types, wood types and efficiencies, wood availability, proper management, drying, and splitting.

VC 697.04
Harding, Virginia. Which energy. Iowa State University, 1980. 28 min. Color. †

Looks at some forms of solar energy possible in Iowa, including active and passive solar energy, storing photo-synthetic energy (biomass, alcohol for fuel, methane), water and wind.

VC 621.312
Harness the wind. Bullfrog Films, 1978. 12 min. Color. †

Concise overview of the history and potential of wind power. Future designs are included. (Credits: Sidney Goldsmith and the National Film Board of Canada.)

VC 697.78
House for all seasons. Iowa State University, 1979. 23 min. Color. †

Iowa weather presents a challenge to homeowners who want efficient and economical housing without sacrificing comfort. This program looks at an experimental house operated by I.S.U. to research active and passive energy features that may prove beneficial in Iowa's climate.

VC 697.78
If you can see a shadow. Bullfrog Films, 1979. 28 min. Color. †

Clear and comprehensive account of passive solar techniques. Covers energy conservation, and includes sections on mass walls, sunspaces (including greenhouses), combining different passive systems, passive hot water, and underground homes. (Credits: Produced by Brewer-Reynolds.)

VC 333.959
Kilowatts from cowpies: the methane option. Bullfrog Films, 1981. 25 min. Color. †

For a relatively small investment in simple technology, farmers can turn their animal waste problem into a valuable renewable source of energy--methane, or biogas. Biogas is a product of the bacterial decay of organic matter in an oxygen-free environment. Just about any type of organic material can be used to produce it, including crop and forestry residues, food processing wastes, human sewage, and animal wastes. (Credits: Film by Henry Mayer.)

VC 643.7
Old house, new house. TDK Electronics, 1981. 27 min. †

Documents a two-year volunteer project that renovated a drafty Victorian mansion. The structure is now insulated, wastes are recycled, and greenhouses provide food and warmth. Red ribbon winner of the 1982 American Film Festival.

VC 697.78
Opening your home to solar energy. Bullfrog Films, 1980. 28 min. Color. †

Demonstrates ways to utilize low-cost, passive solar techniques in existing homes. Covers everything from a simple hot air collector, to adding a picture window, enclosing your south-facing porch, building a sun room , or putting up a solar chimney for summer cooling.

VC 693.83
Roth, Fred. Energy exits. Iowa State University, 1977. 28 min. Color. †

How to reduce energy consumption by such techniques as insulating or by building or changing an existing home to improve energy conservation.

VC 697.78
Solar frontier. Bullfrog Films, 1977. 24 min. Color. †

Three solar houses in the Canadian snowbelt are featured: one active, one passive, and one hybrid. They were all

built for average income families. (Credits: Frances and Peter Mellen.)

VC 697.78
Solar promise. Bullfrog Films, 1979. 28 min. Color.

Emphasizes space and water heating as the most appropriate use of the sun's energy. Explains the difference between passive and active systems and stresses the value of passive systems and their cost-effectiveness. (Credits: Written, directed, and edited by Tom Putnam, anchored by Donald Aitken; produced by Henry Mayer.)

VC 697.22
Wood heat. Bullfrog Films, 1980. 28 min. Color.

Discusses selection and installation of stoves, and how to manage your own wood lot, providing an overall view of what is involved and the amount of work a woodstove takes. (Credits: Fritz Williams and the editors of Rodale's New Shelter Magazine).

EARTH SHELTERED BUILDINGS

728
Ahrens, Donna. Earth sheltered homes: plans and designs. Van Nostrand Reinhold Co., 1981. 125p.

697
Alternatives in energy conservation: the use of earth covered buildings. Edited by Frank L. Moreland. U.S. Govt. Printing Office, 1975. 353p.

Relates the history of earth covered buildings. Discusses present uses, costs, and benefits of earth structures.

690.8
Campbell, Stu. Underground house book. Garden Way, 1980. 210p.

690.8
Carter, David. Build it underground: a guide for the self-builder and building professional. Sterling, 1982. 208p.

728
Chalmers, Larry S. Homes in the earth. Chronicle Books, 1980. 112p.

Contains 40 earth-sheltered home designs, some of which border on fantasy.

711.58
Earth sheltered community design. Van Nostrand, 1981. 270p. †

Provides practical information to be considered by developers of earth sheltered communities.

690.8
Earth sheltered housing: code, zoning, and financing issues. By the Underground Space Center, Univ. of Minneapolis. U.S. Govt. Printing Office, 1980. 141p.

728
Edelhart, Mike. The handbook of earth shelter design. Doubleday, 1982. 235p.

690.8
Eggert, Jim. Low cost earth shelters. Stackpole Books, 1982. 159p.

VC 728
Energy savers, earth-sheltered housing. Discussed by Brent Anderson. Des Moines, Iowa: IPBN, 1980. 28 min. Color. †

Design considerations of earth-sheltered housing are discussed; special attention is given to common misconceptions and institutional barriers.

728
Martindale, David. Earth shelters. E.P. Dutton, 1981. 148p.

728
Minnesota. University. Underground Space Center. Earth sheltered housing design: guidelines, examples, and references. Van Nostrand, 1979.

Useful information on the architectural design of earth sheltered homes. Contains design guidelines, plans, details, and photographs of existing examples of earth-sheltered houses around the country.

690.8
Oehler, Mike. The $50 and up underground house book. Van Nostrand, 1981. 115p. †

Discusses how to design and build an underground home and still get light, air and view while cutting material costs by 90%.

690.8
Rickman, Gary A. Go underground and save. Gary R. Rickman, 1979. 81p.

690.8
Roy, Robert L. Underground houses: how to build a low-cost home. Sterling, 1979. 128p.

690.8
Scott, Ray G. How to build your own

underground home. TAB, 1979. 256p. †

Guide for planning, designing, and building a modern underground home, from codes and regulations to inside finishing.

690.8
Scott, Ray G. Underground homes: an alternative lifestyle. TAB, 1981. 395p.

An overview of the many aspects of living in underground homes. Includes dealing with insects, security, codes and regulations, taxes, and resale value.

690.8
Tri/Arch Associates. The earth shelter handbook. Tech/Data, 1980. 244p. †

Covers environmental impact, structural systems, building components, and design of earth sheltered homes in northern Wisconsin. Well-illustrated.

728.3
Wade, Alex. A design and construction handbook for energy-saving houses. Rodale Pr., 1980. 380p. †

Contains specifics on building eleven custom-made, energy-, space-, and money-saving houses for the would-be builder. Well illustrated.

720
Wells, Malcolm. Underground designs. Brick House, 1981.

FUEL

333.959
Biogas from manure. University Park, 1975. †

Defines biogas generation terms and describes the operation of an anaerobic digester.

VC 333.79
[Energy conservation] Alcohol for farm fuel. Iowa State University, 1980. 5 min. Color. †

Using corn for fuel can help combat the shortage of fossil fuels. Two Iowa farmers describe their operation for making fuel alcohol.

662.669
Brown, Michael. Brown's second alcohol fuel cookbook. TAB, 1981. 303p.

Practical, money-saving guide to making your own alcohol motor fuel and adapting your car engine for its use.

662.669
Carley, Larry W. How to make your own alcohol fuels. TAB, 1981. 279p.

Provides background information necessary for the home production and use of alcohol fuel.

662.669
Fuel from farms: a guide to small-scale ethanol production. A product of the Solar Energy Information Data Bank. Technical Informaion Center, 1980. 78p. †

Aids in market assessment, production potential assessment, and financial decision making.

662.669
Hunt, V. Daniel. The gasohol handbook. Industrial Press, 1981. 580p.

Contains information on all aspects of gasohol production and its potential as an energy resource.

VC 333.959
Kilowatts from cowpies: the methane option. Bullfrog Films, 1981. 25 min. Color. †

For a relatively small investment in simple technology, farmers can turn their animal waste problem into a valuable renewable source of energy--methane, or biogas. Biogas is a product of the bacterial decay of organic matter in an oxygen-free environment. Just about any type of organic material can be used to produce it, including crop and forestry residues, food processing wastes, human sewage, and animal wastes. (Credits: Film by Henry Mayer.)

662.669
Mathewson, Stephen W. Manual for the home and farm production of alcohol fuel. Ten Speed, 1980. 208p.

A technical primer for producing and using alcohol fuel.

662.669
Nellis, Micki. Makin' it on the farm. American Agricultural News, 1979. 88p.†

Illustrated, step-by-step instructions for making ethanol. Appendix compares alcohol yields of various crops.

665.776
Rutan, Al. The do's and dont's of methane. Rutan, 1979. 160p. †

A guide to processing methane from animal wastes with a home sewage digester.

662.669
Stetson, Fred. Making your own motor fuel: with home and farm alcohol stills. Garden Way, 1980. 186p.

Contains all the information needed for the back yard experimenter to build and operate two small stills.

662.669
Wortham, Jim. Forget the gas pumps--make your own fuel. Love Street, 1979. 85p.

Simple instructions for making and using fuel alcohol.

GENERAL

GENERAL ENERGY CONSERVATION, INSULATION

690
Adams, Anthony. Your energy efficient house; building and remodeling ideas. Garden Way, 1975.

644
Al Ubell's energy-saving guide for homeowners. Warner, 1980. 144p.
Guide to saving energy with a section for the reader to audit a home's energy consumption.

KIT 20
Alliance for Environmental Education. Energy crisis - what we can do.
2 filmstrips; 16mm plus 1 sound recording; 33 1/3 rpm, mono;12 in. plus 1 pamphlet.

697
Arco Publishing Company. The complete energy-saving home improvement guide. Arco Publishing, 1981. 144p. †
A "how-to" and "how-much" guide to energy conservation investments to help make the most of your energy dollars.

VC 333.79
Baker, K. and V. Harding. Energy and lifestyle. Iowa State University, 1977. 28 min. Color. †
We have been using energy at an ever increasing rate over the past several generations. What does our lifestyle have to do with the amount of energy we use?

693.834
Blandy, Thomas. All through the house: a guide to home weatherization. McGraw-Hill, 1980. 184p.

VC 697.78
Building the Brookhaven House. Bullfrog Films, 1981. 25 min. Color †
A record of the construction of the Dept. of Energy's prototype passive solar home -- built with standard techniques and materials. The film shows how anyone can adapt standard housing designs to incorporate passive solar features which will save up to 75% of the homeowner's fuel bills. (Credits: Produced by the Department of Energy.)

690.837
Chapman, C. Keeler. Homes for the 80's: an energy and construction design aid. TAB, 1982. 256p. †
A practical guide to constructing energy-efficient homes; includes landscape techniques and water rams.

696
Coffee, Frank. Self-sufficient house. Holt, Rinehart and Winston, 1981. 213p.

693.83
The complete book of insulation. Edited by Larry Gay. Stephen Greene Press, 1980. 178p.
Comprehensive guide to home insulation with sections on laws, government programs, and codes effecting insulation.

R 333.79
Consumer energy atlas. Prepared by Fraser Associates for U.S. Dept. of Energy. U.S. Govt. Printing Office, 1980. 251p. †
Provides a convenient source of information on key contacts concerned with energy in the U.S. and provides answers to the most often asked energy-related questions from energy conservation to nuclear power.

629.28
Consumer Guide. Car tune-up: save money and gas; tune your own car. Author, 1979. 96p.
By doing your own auto tune-ups, you can save money, get better gas mileage, and maintain your car's best performance.

333.7
Consumer Guide. Energy savers catalog. Beekman, 1977. 160p.

Provides an attic-to-basement array of proven techniques for dramatically cutting gas, oil, and electricity bills.

697
Consumer Guide. Home energy Saver. Consumer Guide, 1979. 62p.

A fact-packed guide that gives practical money-saving ideas to use all year-round.

381.3
Consumer products advertised to save energy--let the buyer beware. By the Comptroller General of the United States, Report to the Congress. U.S. General Accounting Office, 1981. 70p.†

Looks at the types of products and claims in the marketplace, evaluates the potential of energy-saving claims to mislead consumers, and assesses the effectiveness of federal and state efforts to protect consumers from inaccurate and misleading claims.

643.7
Cowan, William M. Adding rooms, saving energy upstairs, downstairs, sideways. Collier, 1979. 122p.

Discusses ways of adding energy saving rooms to a house through insulating and remodeling pre-existing attics, basements, garages, and carports.

644
Derven, Ronald. How to cut your energy bills. Structures, 1976. 131p.

How to economize on energy costs in the use of gas, oil, electricity, lighting and water, plus how to get maximum efficiency from appliances.

333.79
Do-it-yourself energy saving projects. Lane Publishing Company, 1981. 96p. †

Practical steps you can take to trim energy use without remodeling your home.

643.7
Do-it-yourself insulation and weather-stripping. Lane Publishing Companay, 1978. 80p.

693.83
Duncan, S. Blackwell. The home insulation bible. TAB, 1982. 366p.

696
Energy alternatives. Time-Life Books, 1982. 128p.

621.4
Energy book: more natural sources and backyard applications. Running, 1977. 125p. †

Examines wind, solar, methane, plant and trash energy resources, their current uses and possibilities for the future.

VC 333.79
[Energy Conservation] Iowa State University, 1980. 30 min. Color. †

Contents: Alcohol for farm fuel--Cooking with a solar oven -- Passive solar energy, four keys -- Planning to use the sun -- Solar energy for hog buildings -- Wind power in Iowa.

721
Energy conservation through building design. McGraw Hill, 1979. 305p. †

Written by leading authorities in their respective fields, each chapter covers an aspect of the efficient use of energy in building design.

697
Energy efficient housing: a prairie approach. University of Saskatchewan, 1980. 34p. †

Describes energy conservation practices for old and new houses in one of the coldest populated regions in the world.

531.6
Energy primer; solar, water, wind, and biofuels. Portola Institute, 1974. 200p.

Focuses on these four types of alternate energy, and includes book reviews and sources for hardware.

VC 678.35
Energy savers, caulking and weatherstripping. IPBN, 1980. 27 min. Color. †

Shows caulking and weatherstripping products and tools, their appropriate uses, and how to apply these materials to an older home.

333.7916
The energy saver's handbook. By the scientific staff of the Massachusetts Audobon Society. Rodale Press, 1982. 322p.

VC 693.83
Energy savers, insulation. IPBN, 1980. 28 min. Color. †
Detailed explanation of insulation types, tools and safety considerations. The insulation of a house is shown.

VC 696.6
Energy savers, solar water heating and water energy saving devices. IPBN, 1980. 29 min. Color. †
Shows common attachments available for conserving hot water. Demonstrates how to install such devices, and how to insulate a water heater. Discusses active solar systems for domestic hot water.

696
Energy-saving projects you can build. Meredith Corp., 1979. 96p.

697.1
Falcone, Joseph D. How to design and build energy-efficient fireplaces and chimneys; homeowner's guide to saving energy. TAB, 1981. 383p.

635.9
Foster, Ruth S. Homeowner's guide to landscaping that saves energy dollars. McKay, 1978. 184p.
Discusses landscaping to block the winter cold and to direct cool breezes in the summer. Includes a list of plants for special purposes.

R 629.2
Gas mileage guide: EPA fuel economy estimates. By U.S. Dept. of Energy. U.S. Govt. Printing Office.
Gives estimated fuel economy ratings to compare the relative mpg for different vehicles.

643.7
Geary, Don. The complete handbook of home exterior repair and maintenance. TAB, 1982. 343p. †
Suggests periodic exterior maintenance programs to ensure efficient prevention of water damage, reduced energy consumption, and good looks.

333.7
Halacy, D. S. Earth, water, wind, and sun; our energy alternatives. Harper, 1977. 186p.
Presents an overview of various forms of non-fossil derived energy, and explains how they can be harnessed to augment fossil-derived energy sources.

697
Hand, A.J. Home energy how-to. Popular Science, 1977. 258p.
Guide to saving and producing home energy; includes a section on methane.

697
The handbook of moving air. Edited by Harrison A. Dunlavy. American Ventilation Association, 1977. †
Shows how the scientific principles of air movement can be applied for the efficient use of energy.

641.5
Happel, Margaret. Energy-wise cooking: cut energy costs with these sensational recipes. Butterick, 1979. 135p.
Presents methods of energy efficient cooking including recipes for use in toaster ovens, pressure cookers, electric skillets, slow cookers, microwave ovens, and range tops.

VC 697.04
Harding, Virginia. Which energy. Iowa State University, 1980. 28 min. Color. †
Looks at forms of solar energy possible in Iowa, including active and passive solar energy and storing photo-synthetic energy (bio-mass, alcohol for fuel, methane), water and wind.

696
Hart, G. Kimball. How to cut your energy costs; a guide to major savings at home and on the road. U.S. News and World Report, 1978.

697
Hedden, Jay W. Heating, cooling, ventilation: solar and conventional: answers and projects for the homeowner. Creative Homeowner Press, 1981. 144p.

693.832
Hickok, Floyd. Your energy-efficient home. Prentice-Hall, 1977. 145p. †
Demonstrates simple improvements that can substantially save energy dollars.

697
Higson, James D. Building and remodeling for energy savings. Craftsman, 1977. 319p. †
Shows what design features could and should be built into new homes and remodeling jobs, for energy-conscious home-builders and contractors.

690.8
Hopster, Gene. How to design and build your dome home. H.P. Books, 1981. 96p.
Contains plans and illustrated instructions for building an energy efficient dome home. Includes directions for building a fireplace for the dome.

690.8
Hopster, Gene. Owner built dome home: a how to do it book. Domeplans, 1979. 96p.
How to plan and build a low-cost dome home. Discusses site selection, drawing plans, financing and construction, with a section on proper installation of insulation. Well illustrated.

697.042
Hotton, Peter. Coal comfort; an alternative way to heat your home. Little, Brown, 1980. 167p.
Provides information on cost comparisons with other fuel methods and consumer information on various coal stoves, burners, and furnaces available.

643.7
Hotton, Peter. So you want to fix up an old house. Little, Brown, 1979. 274p.
Discusses maintenance and repair of older homes, with two chapters devoted to making an older home more energy efficient.

VC 697.78
House for all seasons. Iowa State University, 1979. 23 min. Color. †
Iowa weather presents a challenge to homeowners who want efficient and economical housing without sacrificing comfort; this program looks at an experimental house operated by I.S.U. to research active and passive energy features that may prove beneficial in Iowa's climate.

693.83
Insulation manual. NAHB Research Foundation, 1979. 149p. †
Provides a complete source of reliable information on the proper installation, use, economics, and benefits of insulation and other energy-conserving techniques.

697
Jones, Peter. How to cut heating and cooling costs. Butterick, 1979. 144p.
Overview of making a home more energy efficient with room-by-room seasonal energy-saving check ups for homeowners.

690
Kern, Ken. Owner-built home. Scribner, 1975. 374p.
Shows how a house can be situated to take advantage of the sun, wind, and landscape and how to use a variety of building materials like adobe and rammed earth.

644
Kleebery, Irene Cumming. Home energy saver; all the facts you need to save energy dollars. Butterick, 1977. 208p.

Gives an overview of ways to make your traditional home and car more energy efficient.

696
Kokette, Stephen. Money saving conservation products and projects for the homeowner. Aylmer Press, 1978. 135p. †

Shows the homeowner, tenant, and landlord a vast range of projects and products which can save money on energy and water consumption.

693.832
Knight, Paul. The Energy Resources Center illustrated guide to home retrofitting for energy savings. Hemisphere Pub. Corp., 1981, 364p.

644
Laird, Jean E. The homeowner's book of energy savers. Stephen Green Press, 1981. 173p. †

Pactical, common sense energy habits to make a part of our everyday life - and save us from 20 to 40 per cent on utility bills annually.

693.832
Langdon, William K. Movable insulation. Rodale, 1980. 379p. †

A guide to reducing heating and cooling losses through the windows of your home with insulating shades, shutters, panels and curtains.

645.3
Lindahl, Judy. Roller shades; make your own from fabric. Lindahl, 1974.

Construction methods for making attractive roller shades for window decoration and insulation.

693.83
LoSchiavo, Joseph V. You fix it: insulation. Arco, 1975.

How to locate heating and cooling losses in the home and how to fix them.

690.8
Low-cost, energy-efficient shelter for the owner and builder. Rodale, 1976. 408p. †

Covers everything from simple winterizing projects that lower heating bills to full-scale design and construction programs to completely build or renovate a house.

693.832
McClintock, Michael. Homeowner's energy investment handbook. Brickhouse, 1982. 116p. †

Shows how to compare the cost of over 100 energy-saving improvements and the savings which can be expected from each.

696
Mecca, Stephen J. Home energy management. Petrocelli Books, 1981. 135p. †

Focuses on principles of energy management with a practical orientation toward problems and opportunites of space heating in homes.

693.832
Meyers, L. Donald. How to do your own home insulation. Harper & Row, 1978. 70p. †

How to figure your home's present state of insulating efficiency and how to weatherize for maximum savings year-round.

643.7
Mitchell, Harris. 1200 household hints you want to know. Everest, 1982. 252p.

Includes insulation, fireplaces, condensation, furnace care, and general heating tips.

712
Moffat, Anne Simon. Landscape design that saves energy. Morrow, 1981. 223p.

Save energy through landscaping by controlling wind, solar radiation, precipitation, and extremes of weather.

696
Morrell, William H. The energy miser's manual. Grist Mill, 1976. 77p.

Suggests ways for the average citizen to cut energy consumption.

696
Morrison, James Warner. The complete energy-saving handbook for homeowners.

Harper & Row, 1979. 288p. †

Shows what steps to take to reduce home energy costs and what savings in home heating and cooling costs can be expected by taking these measures.

644.1
Murphy, John Albert. The homeowner's energy guide. Crowell, 1977. 217p.

Demonstrates how to reduce home energy use based on economical trade-offs and how to analyze homes for areas of heat loss. Includes appendices on heat transmission of glass and resistence values for building materials.

640
99 ways to a simple lifestyle. Anchor/Doubleday, 1976. 381p.

643
Norback, Peter. The consumer's energy handbook. Van Nostrand Reinhold Co., 1981. 362p.

643.7
Nunn, Richard V. Saving home energy. Oxmoor, 1975. 96p.

Practical methods for conserving available energy while saving money.

VC 643.7
Old House, new house. TDK Electronics, 1981. 27 min. †

Documents a two-year volunteer project that renovated a drafty Victorian mansion. The structure is now insulated, wastes are recycled, and greenhouses provide food and warmth. Red ribbon winner of the 1982 American Film Festival.

697
Olin, Harold B. Energy conservation and you. United States League of Savings Associations, 1978. 47p. †

Contains simple recommendations on where and how the conventional house can be improved to make it more energy efficient.

640
Osgood, William E. Wintering in snow country. Stephen Greene Press, 1978. 161p.

Clues for saving energy, including insulation, alternative heating methods, and types of clothing.

697
Parks, Alexis. People heaters. Brick House Pub., 1981. 120p. †

A common-sense approach to keeping warm, ranging from space heaters to long underwear.

697
Planning and building the minimum energy dwelling. Craftsman Book Co., 1979. 287p. †

Explains how to design and build a conventional residence to cut gas, oil, and electric costs by as much as 50%.

644
Price, Billy L. Homeowner's guide to saving energy. TAB, 1981. 383p. †

How to wisely select energy saving products -- from insulation to appliances, from fireplaces to heat pumps.

R 640
Reader's Digest. Back to basics: how to learn and enjoy traditional American skills. Reader's Digest, 1981. 456p.

Guide to everything from building a smokehouse to making your home energy efficient using alternative energy sources. Superb diagrams, illustrations, and step-by-step instructions.

697
Robinson, Steven. The energy efficient home, a manual for saving fuel and using solar, wood and wind power. New American Library, 1978. 158p.

Provides information on how much energy each home appliance uses, how planting trees can reduce energy consumption, and how to maximize fireplace heating.

644
Roscoe, George B. Today's energy savers guide for homeowners, summer and winter. Acropolis, 1982. 103p. †

Contains 200 easy-to-implement ways to save money on energy bills, plus tips on how you can use solar energy now.

VC 693.83
Roth, Fred. Energy exits. Iowa State University, 1977. 28 min. Color. †
How to reduce energy consumption by such techniques as insulating or by building or changing an existing home to improve energy conservation.

696
Rothchild, John. Stop burning your money; the intelligent homeowner's guide to household energy saving. Random, 1981. 285p.
Lays out in practical, cost-benefit terms how the average homeowner can make the house more energy efficient at the lowest possible cost.

690.837
Roy, Robert L. Money-saving strategies for the owner/builder. Oak Tree Press, 1981. 160p.

646.457
Schulz, Renee C. Sew for snow. Stackpole, 1980. 190p.

693.832
Shurcliff, William A. Superinsulated houses and double-envelope houses. Brick House, 1981. 182p. †
Surveys the principles and practice of this newest trend in energy-conscious construction, homes that require little or no central heating.

684
Shurcliff, William A. Thermal shutters and shades. Brick House, 1980. 238p.
Contains over 100 schemes for reducing heat-loss through windows.

697
Skurka, Norma. Design for a limited planet; living with natural energy. McGraw-Hill, 1976. 215p.
An illustrated sourcebook of a variety of alternate energy houses. Includes interviews with the people who designed, built, and live in the homes.

644
Smith, John Evans. Conserve energy and save money. McGraw-Hill, 1980. 179p.
Presents arguments for using renewable fuels, with special tips for businesses and schools.

640.73
Spies, Henry R. 350 ways to save energy (and money) in your home and car. Crown, 1974.
Charts and diagrams illustrate clearly described procedures that will save energy and money.

R 629.2
Steel, Mike. New and used car gas mileage and price guide: cars and trucks. Gabriel.

621.4
Stoner, Carol. Producing your own power: how to make nature's energy sources work for you. Vintage Books, 1975. 322p.
Surveys methods of harnessing energy resources, including wind, wood, water, methane, and solar.

697
Total warmth: the complete guide to winter well-being. Macmillan, 1981. 210p.
A sourcebook of information on dressing for warmth, winter survival, starting a car in subzero weather and cutting fuel bills.

333.7
U.S.Dept. of Agriculture. Cutting energy costs. U.S. Govt. Printing Office, 1980. 397p.
Presents energy saving ideas for people to use in the home, community, and on the farm.

697
U.S. Dept. of Housing and Urban Development. Energy-saving home improvements: a dollars and sense guide. Drake Pub., 1977.

693.8
U.S. Dept of Housing and Urban Development. How to insulate your home and save fuel. Dover Pub., 1977. 72p.
Suggestions to make conventional homes more energy efficient. Includes

an energy checklist.

696
Vale, Brenda. The autonomous house: design and planning for self-sufficiency. Universe, 1975. 224p.
Describes how to design a house that uses the energy of the sun, wind, and rain to supply its own energy and process its own wastes.

643.7
Vaugh, Lewis. Chilton's guide to home energy savings. Chilton Book Co., 1982. 222p.

728.3
Wade, Alex. A design and construction handbook for energy saving houses. Rodale, 1980. 380p.

690
Wade, Alex. 30 energy-efficient houses you can build. Rodale, 1977.

697
Wahlfeldt, Bette Galman. The energy efficient home. TAB, 1982. 277p. †
Contains 101 money saving ideas to help you make your home a tight, efficient, money-saving place in which to live.

697
Waschek, Carmen. Inflation fighters big book. Reston Pub. Co., 1979. 262p. †
Explains how to reduce your present energy consumption through energy efficiency; what it will cost and what you will gain.

693.8
Wilson, Roy L. Build your own energy-saver home or upgrade your existing home. Energy-Saver Homes Co., 1978. 145p.

690.1823
Windows and skylights. Lane Pub. Co., 1982. 112p. †
How to use windows and skylights for light, energy savings, and dramatic effect. Detailed information on planning, installation and maintenance.

690.1823
Windows for energy efficient buildings. U.S. Govt. Printing Office, 1979. 29p.
Contains research, development, and demonstration of new energy-efficient window products and design techniques.

643.7
Wing, Charles. From the walls in. Little, Brown, 1979. 226p. †
Information, advice, and illustrations for retrofitting the older home for comfort and energy conservation.

643.7
Wing, Charles. The tighter house. Rodale, 1981. 92p.

690.182
Wolf, Kay. Insulating window shades. Rodale, 1980. 80p. †
How to build and install insulating window shades that form an attractive barrier to cold air in winter. Shades reverse in summer to reflect the sun and keep the house cool.

690
Yeck, Fred. Building your own home. Arco Pub. Co., 1978. 220p.
Tips on site selection, financing and getting permits. Includes a section on building energy conserving homes.

HEAT

COAL AND WOOD STOVES, VENTILATION

697.22
Adkins, Jan. The art and ingenuity of the woodstove. Everest House, 1978. 137p.

Promotes the woodstove as an alternative to modern heating and cooking systems, and traces its historical development. Details safety regulations for installation, wood choice and preparation, auxiliary equipment, and manufacturers.

VC 697
Bill Loosley's heat pump. Bullfrog Films, 1976. 10 min. Color. †

Bill Loosley lives in Canada, where the ground freezes solid three or more feet down. But since 1951 he has operated a heat pump that provides a return in heat six times greater than the energy required to run it. Bill heats his house by gathering warmth from the ground below frost level (which remains a year round temperature of 40-45 degrees F.) and pumping it indoors. (Credits: Produced by the National Film Board of Canada.)

697.1
Bortz, Paul. Getting more heat from your fireplace. Garden Way, 1981. 156p. †

Discusses all aspects of fireplace efficiency and describes different models of fireplaces and fireplace inserts. Contains a chapter on chimney and fireplace maintenance, and a catalog of manufacturers.

697
Brann, Donald R. How to install a fireplace: radiant heat, circulating hot air, free standing, masonry. Directions Simplified, 1974. 242p.

697
Browne, Dan. Alternative home heating. Holt, 1980. 179p.

A guide to getting the most cost-efficient heat as a supplement or alternative to fossil fuels. Solar systems, fireplaces, stoves, and heat pumps are discussed.

697.22
Busha, William. Book of heat: a four-season guide to wood and coal heating. 1st ed. Stephen Greene Press, 1982. 181p. †

Guide to wood and coal heating for the new owner of stoves. Easy to read; lovely illustrations.

641.58
Chadwick, Janet. The Country Journal woodburner's cookbook. 1st ed. Country Journal, 1981. 182p.

How to cook, bake, and save energy using an airtight wood stove. Includes recipes.

697
Chimneys, fireplaces, vents and solid fuel burning application, 1980. Prepared by the Technical Committee on Chimneys, Fireplaces and Venting Systems for Heat Producing Appliances. National Fire Protection Assoc., 1980. 57p. †

Safety regulations for installation of solid fuel-burning appliances.

641.58
Cooper, Jane. Woodstove cookery: at home on the range. Garden Way, 1977. 196p.

648.5
Curtis, Christopher. Be your own chimney sweep. Garden Way, 1979. 101p.

Explains how creosote forms and how to remove it from wood stoves and chimneys. Describes how to operate a stove for minumum creosote buildup.

697.1
Daniels, M. E. Fireplaces and wood stoves; how to build, buy, install and use them. Bobbs, 1977. 192p.

VC 697.22
Energy savers, woodburning. IPBN, 1980. 28 min. Color. †
Extension forester Paul Wray considers all aspects of warming with wood: stove types, wood types and efficiencies, wood availability, proper management, drying and splitting.

697.1
Falcone, Joseph D. How to design and build energy efficient fireplaces and chimneys. TAB, 1981. 383p.

697
Fireplaces and wood stoves. By the editors of Time-Life Books. Time-Life, 1981. 136p.
Guide to constructing or buying fireplaces, stoves, and heaters and using them with maximum efficiency. Includes a chapter on care and feeding of a fire.

697.04
Flayler, Gordon. North American wood heat handbook. Scribners, 1982. 242p.†
Up-to-date information on wood-burning technology. Includes data on appliances and maintenance, as well as how to harvest and store wood. Diagrams.

697
Gay, Larry. Central heating with wood and coal. Stephen Greene, 1981. 114p.

697.22
Gay, Larry. The complete book of heating with wood. Garden Way, 1974. 128p.
Advice on choosing fuelwoods, improving woodlands, and the effect of heating with wood on the environment. Contains sections on using old stoves, modern stoves and other wood-burners.

697.22
Harrington, Geri. Fireplace stoves, hearths, & inserts; a coal- and wood-burner's guide & catalog. Harper & Row, 1980. 178p.
Describes a variety of woodburning devices that can be used to adapt fireplaces, in order to heat homes more efficiently.

697.04
Harrington, Geri. The wood-burning stove book. Collier Books, 1979. 234p.
Discusses what you need to know about heating and cooking with wood-burning stoves and provides a large section of pictures and descriptions of various stoves.

697
Havens, David. The woodburners handbook. Mothers Bookshelf, 1973. 96p.
How to select the right kind of wood, fell a tree, and split logs. Incudes sections on choosing a wood stove, cooking on wood stoves, building wood stoves, and building and maintaining chimneys.

697
Heating with wood. By the eds. of The Family Handyman magazine. Butterick, 1978. 192p.

697.04
Heating with wood. U.S. Govt. Printing Office, 1980. 20p. †
A pamphlet describing various aspects of heating with wood and fire safety.

697.042
Hotton, Peter. Coal comfort; an alternate way to heat your home. Little, Brown, 1980. 167p.
Explains how to safely and effectively heat with coal, how coal compares with other fuels, and how to decide what kind of coal furnace or stove to select.

697.1
How to plan and build fireplaces. By the eds. of Sunset books and Sunset Magazine. Lane, 1980. 96p. †
Ideas for building fireplaces with information on wood stoves and fire-tending. Well-illustrated.

697.1
Jones, Robert. Fireplaces: adding, improving, heat saving systems, wood stoves. Creative Homeowner Press,

1980. 128p.

697.1
Kern, Ken. Fireplaces. Scribner's, 1978. 192p. †

An owner-builder's guide to fireplaces, with numerous photographs, diagrams and illustrations. Step-by-step instructions for making different types of fireplaces are provided.

697.1
Kipp, Jerry. Firefacts: a consumer's guide to wood heat. Countryman, 1980. 245p.

Stresses the importance of wood energy from woodlot management to efficient useage. Includes an illustrated buying guide of many woodburning units.

697
McGuigan, Dermot. Heat pumps: an efficient heating and cooling alternative. Garden Way, 1981. 202p.

697.042
Morrison, James Warner. The homeowner's guide to coalburning stoves and furnaces. Arco, 1981. 172p.

A concise explanation of the characteristics of coal and its use as a source of home heating.

697
Price, Billy L. Central heating and air conditioning repair guide. TAB, 1975.

697
Price, Billy L. Master handbook of all home heating systems: tuneup, repair, installation and maintenance. TAB, 1979. 352p.

This informative book includes chapters on selecting the lowest cost fuel, furnace fuel conversions to cut heating costs, saving money with wood and coal heat, the homeowner's energy tax credit, and other conservation incentives. Useful appendices, glossary and index.

697.04
Roser, Richard C. Build your own solid-fuel burning stove. TAB, 1982. †

Informative descriptions of building different types of stoves, complete with detailed diagrams, sketches and flow charts. Data on each stove and lists of materials needed are included.

697
Ross, Bob. Modern and classic woodburning stoves, and the grass roots energy revival. Overlook, 1976. 143p.

Practical guide to woodburning stoves. Discusses site selection and compares styles of stoves.

697
Shurcliff, William A. Air-to-air heat exchangers for houses. Brick House, 1982. 188p. †

Information on home ventilation to recover valuable heat.

697.04
Shelton, Jay. Wood heat safety. Garden Way, 1979. 165p. †

Provides extensive material on operation and maintenance of wood heating systems.

697
Shelton, Jay W. Woodburners encyclopedia. Vermont Crossroads.

Provides information on heating a house with wood. Shows tables of types of woods and how each burns and includes illustrations of various wood stoves, their dimensions, strong points and manufacturers addresses.

644
Sherman, Steve. The wood stove and fireplace book. Stackpole, 1976. 128p.

Compares various soft and hardwoods, and describes how to select and store your wood. It compares stoves and fireplaces, and includes a section on stove and fireplace maintenance.

697.24
Sunset homeowner's guide to wood stoves. By the eds. of Sunset books and Sunset magazine. 1st ed. Lane, 1979. 96p.

Well-illustrated introduction to all aspects of wood stoves, including

selection and installation.

697
Time-Life Books. Heating and cooling. Time-Life, 1977. 128p.
Explains the functions of ducts, radiators, stoves, and other components of home heating and cooling systems. Provides energy saving tips and system modifications that the home owner can make.

697.04
Twitchell, Mary. Wood energy: a practical guide to heating with wood. Garden Way, 1978. 170p.
Suggests ways to help the home owner locate, install, and operate wood stoves. Various wood characteristics and burning qualities are analyzed. Includes a catalog of stoves and related products.

697
Vivian, John. Wood heat. Rodale, 1976. 320p.
Details safe methods of using wood in houses and gives a practical discussion of cooking and heating with wood.

VC 697.22
Wood heat. Bullfrog, 1980. 28 min. Color. †
Discusses selection and installation of stoves, and how to manage your own woodlot, providing an overall view of what is involved with using a woodstove. (Credits: Fritz Williams and the editors of Rodale's New Shelter Magazine.)

697
Woodstove directory: wood, coal and solar equipment. Woodstove Directory, 1983. 264p. †
Lists manufacturer's descriptions, specifications, and addresses as well as articles on heating water, using solar energy, using coal, and selecting firewood.

SOLAR

WINDOWS, PANELS, GREENHOUSES

697
AIA Research Corporation. Solar dwelling design concepts. U.S. Govt. Printing Office, 1976.

697.78
Adams, Robert A. Adding solar heat to your home. TAB, 1979. 280p.
Instructions on planning and installing solar powered heating systems in your home.

697.78
Allred, J. W. An inexpensive solar heating system for homes. NASA Langley Research Center, 1976. 56p. †
Description of a low-cost solar home heating system to add to an existing warm-air home heating system.

697.78
Anderson, Bruce. Passive solar energy: the homeowner's guide to natural heating and cooling. Brick House, 1981. 197p.

697.78
Anderson, Bruce N. Solar energy and shelter design. Total Environmental Action, 1973. 151p. †
Begins with a philosophical presentation of the global environmental crisis and identification of attitudinal changes necessary to bring about effective solar energy design. Concludes with more practical applications of solar energy collection and utilization. Contains examples of solar houses.

697.78
Anderson, Bruce. The solar home book: heating, cooling and designing with the sun. Cheshire, 1976. 297p. †
Presents the basic principles of solar architecture, direct and indirect solar heating and energy systems, and practical, do-it-yourself energy conservation measures.

VC 690.8
Attached solar greenhouse. Bullfrog Films, 1982. 28 min. Color. †
Solar greenhouses, as a rule, use no outside fuel and are net contributors of heat to the main part of the house. This film explains the basic principles of greenhouse design, shows one being built and glazed, and tours a range of different greenhouses from low-cost owner-built structures and kits, to deluxe custom-designed and built greenhouses. (Credits: Produced by Rodale Press with Bullfrog Films.)

621.47
Baer, Steve. Sunspots; collected facts and solar fiction. Zomeworks, 1977. 146p.

697.78
Bainbridge, David A. The integral passive solar water heater book: breadboxes, batches, and other types of simple solar water heaters. Passive Solar Institute, 1981. 99p. †
An in-depth account of integral passive solar water heaters, including history, design, and construction. Also discusses commercial integral passive solar water heaters, market potential and starting a business using this type of solar water heater.

697.78
Bainbridge, David A. Second passive solar catalog. Passive Solar Institute, 1980. 115p.
Includes construction details, principles, and instructions for passive systems of heating and cooling. Listings and descriptions of over 40 passive components and over 150 consultants.

728.6
Bainbridge, David A. Village Homes' solar house deyisns: a collection of 43 energy-conscious house designs. Rodale, 1979. 188p.
Contains the home designs used in

a successful all-solar subdivision in California.

621.47
Barling, John. John Barling's solar fun book: 18 projects for the weekend builder. Brick House, 1979. 120p. †
A how-to-do-it book describing 18 projects designed to be constructed quickly for immediate practical use.

690.869
Bennett, Robert. Sun angles for design. Author, 1978. 76p. †
Twenty-five sun angle charts giving the sun's position for any time of day, any day of the year and at any location from the equator to 60 degrees north latitude.

VC 697.78
Berkland, William R. Passive solar energy. Iowa State University, 1979. 28 min. Color. †
Shows how both old and new buildings may utilize passive solar energy without special pumps or fans. Owners, builders and architects discuss features of passive solar homes.

333.959
Biogas from manure. University Park, 1975. †
Defines biogas generation terms and describes the operation of an anaerobic digester.

635.9
Brann, Donald R. How to build a walk-in or window greenhouse; electric light gardening simplified. Directions Simplified, 1972. 114p.

690
Brann, Donald R. How to build greenhouses, sun houses. Rev. ed. Directions Simplified, 1976. 114p.

696.6
Bryenton, Roger, Ken Cooper, and Chris Mattcock. The solar water heater book: building and installing your own system. Renewable Energy in Canada, 1980. †
Discussion of the assembly of solar water heaters. Includes sun path charts and examples of passive and active solar systems already constructed.

621.47
Buckley, Shawn. Sun up to sun down. McGraw Hill, 1979. 166p. †
Clear, concise explanation of the application of solar energy to practical uses.

621.31244
Bullock, Charles E. Solar electricity: making the sun work for you. Monegon, 1981. 231p. †
Applications of photovoltaics, sunlight and solar electricity. Discusses a sample photovoltaic system, solar law, tax credits, and includes information sources.

621.47
Butti, Ken, and John Perlin. A golden thread: 2,500 years of solar architecture and technology. Cheshire, 1980. 289p. †
Traces the use of the sun as an energy source from ancient Grecian times to the present day.

696.6
Campbell, Stu. Build your own solar water heater. Garden Way, 1978. 109p.

690.869
Carriere, Dean. Solar houses for a cold climate: a detailed study of 26 solar heated houses. Scribner, 1980. 279p.

697
Cassiday, Bruce. Complete solar house. Dodd, 1977.

635.04
Clegg, Peter, and Derry Watkins. The complete greenhouse book: building and using greenhouses from cold frames to solar structures. Garden Way, 1978. 280p.

635.9
Complete greenhouse gardener. Marshall Cavendish, 1975.

635.9
Crockett, James Underwood. Greenhouse gardening. Time-Life, 1977. 160p.

697
Daniels, George. Solar homes and sun heating. Harper, 1975. 178p.
Theoretical and practical information on solar heating and insulation for the layperson.

728.6
Davis, Norah Deakin. At home in the sun: an open-house tour of solar homes in the United States. Garden Way, 1979. 236p.
Includes house plans.

697.78
Dean, Thomas Scott. How to solarize your house: a practical guide to design and construction for solar heating. Scibners, 1980. 162p.
Describes how to design, construct and install a liquid-cooled, flatplate, solar system for space and water heating.

VC 728.6
Design with the sun: passive solar architecture. Bullfrog Films, 1980. 28 min. Color. †
A tour of selected passive solar homes across the U.S. (Credits: Produced by Susan and Bill Yanda; film by Mario and Dana Balibrera.)

635
Doscher, Paul, Timothy Fisher, and Kathleen Kolb. Intensive gardening round the year. Stephen Greene, 1981. 144p.
Presents detailed suggestions for growing many crops in a limited space, expanding the growing season into the winter, and making use of cloches, cold frames, and solar gardening devices.

697.78
Eklund, Ken. A solar water heater works.on manual. Ecotope Group, 1979. 82p. †
Step-by-step construction of a solar water heater. It also includes a section on building and plumbing codes and zoning ordinances to be considered when constructing such a heater.

635.9
Ellwood, Charles. How to build and operate your greenhouse; growing methods, hydroponics, nutrient formulas, plans, costs, heating and cooling, introduction to solar heating. H.P. Books, 1977. 144p.

VC 333.79
[Energy conservation] Cooking with a solar oven. Iowa State University, 1980. 5 min. Color. †
Demonstrates how a solar oven works, the theory behind it, and how to build your own.

VC 333.79
[Energy conservation] Passive solar energy, four keys. Iowa State University, 1980. 5 min. Color. †
Discusses four key points to consider when adding passive solar features to a building: collection, storage, distribution, and controls.

VC 333.79
[Energy conservation] Planning to use the sun. Iowa State University, 1980. 5 min. Color. †
Orientation of the house, use of overhangs, placement of windows, and landscaping ideas are some of the topics discussed. Shows how a home's energy consumption can be reduced through wise use of passive solar energy.

VC 333.79
[Energy conservation] Solar energy for hog buildings. Iowa State University, 1980. 5 min. Color. †
Introduces an Iowa farmer who has designed a hog building with specific features that take advantage of the sun's energy.

VC 690.869
Energy savers, active solar energy. Described by Donald Spencer. IPBN, 1980. 29 min. Color. †
This discussion highlights economic factors, hardware variations and considerations for prospective buyers.

VC 697.78
Energy savers, adding passive solar to existing homes. IPBN, 1980. 29 min. Color. †

Discusses retrofit considerations including site planning, landscaping, and doing-it-yourself. Visits an attached greenhouse as well as a retrofitted farmhouse.

VC 697.78
Energy savers, passive solar energy for new construction. IPBN, 1980. 29 min. Color. †

Principles of passive space heating, including collection, storage, and distribution. Shows passive solar homes in Iowa.

621.47
Ewers, William L. How to use solar energy. Sincere, 1976.

621.47
Ewers, William L. Solar energy; a biased guide. Domus, 1977. 96p.

Concise examination of the development and applications of solar energy. Includes a chapter on swimming pool heating.

728.6
The first passive solar home awards. U.S. Govt. Printing Office, 1979. 226p. †

162 award winning designs of passive solar homes (including a design for a solar doghouse).

690.8
Fisher, Rick. The food and heat producing solar greenhouse: design, construction, operation. John Muir Publications, 1976. 161p.

641.44
Flack, Dora D. Dry and save: a complete guide to food drying at home...with recipes. Woodbridge Press, 1977. 118p.

631.544
Fontanetta, John, and Al Heller. Building and using a solar-heated geodesic greenhouse. Garden Way, 1979. 194p.

Guide to building a solar greenhouse using common hand tools and supplies that make it affordable to anyone. The dome design can be adapted for year-round vegetable gardening. Includes a chapter on site preparation.

631.544
Fontanetta, John, and Al Heller. The passive solar dome greenhouse book. Garden Way, 1979. 194p. †

Detailed guide to the construction of a passive solar dome greenhouse in any part of the country. Includes a chapter on year-round maintenance and operation of the dome greenhouse.

696.6
Garlitz, Joe. Solar hot waterheater. Eastern Oregon Community Development Council, 1978. 81p. †

Description of a design for a low-cost solar water heater that can be easily constructed from materials available at hardware stores.

631.583
Geery, Daniel. Solar greenhouses, underground. TAB, 1982. 408p. †

Discusses solar radiation and thermal patterns as they relate to construction of the greenhouse. Includes a special section on building with rammed earth.

697.78
Gropp, Louis. Solar houses; 48 energy-saving designs. Pantheon, 1978. 160p.

621.47
Halacy, Dan S. The coming age of solar energy. Harper & Row, 1963. 241p.

Discusses the importance of solar energy in our everyday life and the uses of solar power for the space age. Also includes some history and a survey of the organizations in the world who use the sun's light or heat to supply cheap power.

697.78
Haviland, Robert P. Build your own minimum-cost solar heating system.

TAB, 1982. 299p.

690.869
The Hawkweed passive solar house book. Rand McNally, 1980. 192p.

Provides examples of modern, energy-efficient homes, information on how to design and build a passive solar house, and speculation on the future of solar energy.

727.5
Hix, John. The glass house. MIT, 1981. 208p. †

Traces the history of the uses of glass houses from the 1600's and describes future designs for glass houses and glass communities. Emphasis is on how to use nature for the best energy efficiency and how the glass garden has evolved into the glass house. Well-illustrated.

621.47
Holstroemn, Isaac R. Energy from the sun: 33 easy solar projects. TAB, 1981. 182p.

Presents ways to convert solar energy into usable electric power with projects that can be built in a home workshop. Well-illustrated.

697.78
Homeowner's solar sizing workbook: a simplified method for sizing active solar space heating systems. Solar Energy Research Institute, 1980. 45p. †

Contains numerous worksheets, charts, and illustrations to assist the homeowner in choosing the correct size solar heating system.

VC 697.78
If you can see a shadow. Bullfrog Films, 1979. 28 min. Color. †

A clear and comprehensive account of passive solar techniques. Covers energy conservation techniques, and includes sections on mass walls, sunspaces, greenhouses, combining different passive systems, passive hot water, and underground homes. (Credits: Produced by Brewer-Reynolds.)

697.78
Keyes, John H. Consumer handbook of solar energy for the United States and Canada. Moryan & Moryan, 1979. 273p.

720.47
Knowles, Ralph L. Sun rhythm form. MIT, 1981. 289p. †

A "global" approach to the solar environment. Explains the solar envelope concept, and discusses landscape applications, solar design, urban design and architectural design projects.

728.6
Living with the sun: your passive solar home. PPG Industries. 39p. †

Enticing color photographs of actual passive solar homes are interspersed with explanations on passive solar concepts. Emphasis is on glass as the key to passive solar design. Includes a listing of regional and state governmental energy agencies.

697.78
Lucas, Ted. How to build a solar heater; a complete guide to building and buying solar panels, water heaters, pool heaters, barbecues, and power plants. Ward Ritchie, 1975.

697.78
Lucas, Ted. How to use solar energy in your home and business. Ward Ritchie, 1977. 315p.

Presents, in detail, the techniques of installing and maintaining a solar energy system.

621.31244
Maycock, Paul D. Photovoltaics, sunlight to electricity in one step. Brick House, 1981. 222p. †

Comprehensive overview of the technology, applications, economics, and societal aspects of photovoltaics. Includes a chapter on the electric car.

697.78
Mazria, Edward. The passive solar energy book: a complete guide to passive solar home, greenhouse and building design. Rodale, 1979. 435p. †

Discusses the science of solar

energy, approaches to solar heating, design patterns, and useful tools, tables, and charts for the "do-it-yourselfer".

690.869
Metz, Don. Superhouse, the next generation of passive solar energy. Garden Way, 1981. 150p. †

Ideas for building or remodeling homes to make them as energy-efficient as possible.

697.78
Montgomery, Richard H. The solar decision book: your guide to making a sound investment. Wiley, 1978.

697.78
Mueller, Steven J. Solar energy. Butterick, 1980. 176p.

690
Neal, Charles D. Build your own greenhouse; how to construct, equip, and maintain it. Chilton, 1975. 130p.

635.04
Nearing, Helen and Scott Nearing. Building and using our sun-heated greenhouse: grow vegetables all year-round. Garden Way, 1977. 148p.

728.6
New energy-conserving passive solar single-family homes. U.S. Govt. Printing Office, 1981. 284p. †

A report on 91 solar design homes throughout the country, including an explanation of passive solar energy, descriptions of the homes, and details on climate and site requirements.

728.9
Nicholls, Richard. The handmade greenhouse: from windowsill to backyard. Running, 1975. 127p.

621.47
Nicholson, Nick. Harvest the sun. Ayer's Cliff Center, 1978.

The application of solar energy for providing heat for homes, buildings and businesses.

697.78
Nicholson, Nick. The Nicholson solar energy catalogue and building manual. Renewable Energy Publications, 1977. 150p.

VC 697.78
Opening your home to solar energy. Bullfrog, 1980. 28 min. Color. †

Demonstrates ways to utilize low-cost passive solar techniques in existing homes. Covers everything from a simple hot air collector, to adding a picture window, enclosing your south facing porch, building a sun room, or putting up a solar chimney for summer cooling.

690.869
Passive solar: subdivisions, windows, underground. Edited by Herb Wade, Jeffrey Cook, Ken Labs, and Steve Selkowitz. American Solar Energy Soc., 1983. 256p. †

The section on subdivisions covers the development of passive solar applications, and discusses the mass residential market. "Windows" covers all practical aspects of using glass to collect solar rays, while the last section discusses designing, building and living in underground homes.

690.869
Passive solar homes. By the U.S. Dept. of Housing and Urban Development in cooperation with the U.S. Dept. of Energy. Facts on File, 1982. 284p.

R 697.78
Passive solar working for you naturally! Information manual. By the Iowa Energy Policy Council, Solar Office. State, 1980.

Aimed primarily at residential builders, this manual attempts to describe energy saving strategies that can be incorporated into new homes. It covers passive solar design, and construction details. Special indices include: passive solar performance calculation and manufacturers of movable insulating products. The section on climate contains average heating degree-days for 16 localities in Iowa.

635.04
Pierce, John. Green house grow how: a reference book. Plants Alive, 1977. 241p.

635.04
Pierce, John H. Home solar gardening. Van Nostrand, 1982. 164p.

696.6
Plante, Russell H. Solar domestic hot water: a practical guide to installation and understanding. John Wiley and Sons, 1983. 322p. †

Text-book presentation of the fundamentals of solar domestic hot water installation.

697.78
Reif, Daniel K. Solar card. Brick House, 1982. †

A plastic card to be held up to the sky which functions as a site evaluation tool showing paths of the sun. Useful for homeowners, builders, architects, real estate agents, and solar specialists who must evaluate the potential of house or building site for solar water heating, solar house heating, or solar electricity. Can be used by gardeners to find the best location for a greenhouse or garden. Will show which objects will shade your house at various times of the day and year.

697.78
Reif, Daniel K. Solar retrofit; adding solar to your home. Brick House, 1981. 199p. †

Surveys the fundamentals of solar heating and offers technical diagrams and step-by-step instructions for adding a solar heating system to existing, conventionally-heated homes.

728
Reynoldson, George. Let's reach for the sun: 30 original solar and earth sheltered home designs. Space/Time Designs, 1981. 144p. †

Includes price, passive and active features, total square footage, and greenhouse volume for 30 solar and earth sheltered home designs .

690.8
Scheller, William. Successful home greenhouses. Structures, 1977. 131p.

697.78
Scully, Dan, Don Prowler and Bruce Anderson. The fuel savers: a kit of solar ideas for existing homes. Brick House, 1978. 59p. †

Covers a wide variety of ideas for energy conservation in existing homes. Includes inside structures, integral structures, attached, free-standing structures, new structures and solar hot water heaters.

697.78
Sheet Metal and Air Conditioning Contractors National Association. Fundamentals of solar heating: correspondence course. U.S. Govt. Printing Office, 1978. †

Written in home-study format.

697.78
Shurcliff, William A. New inventions in low cost solar heating: 100 daring schemes tried and untried. Brick House, 1979. 293p.

721
Shurcliff, William A. Solar heated buildings of North America: 120 outstanding examples. Brick House, 1978. 293p. †

Case histories of a wide variety of installations.

697
Skarbek, Habdank. Save heating costs, use solar energy. Keystone Solar Energy, Inc., 1975.

A primer for people wanting to learn about energy terms, solar electrical energy, and solar thermal energy. Includes numerous diagrams and an appendix on the industrial application of photovoltaic cells.

697
Skurka, Norma, and Jon Naar. Design for a limited planet; living with natural energy. McGraw-Hill, 1976. 215p.

First-hand accounts of persons who

have built and live in solar homes. Discusses the obstacles they faced and their solutions.

635.0483
Smith, Shane. The bountiful solar greenhouse: a guide to year-round food production. John Muir Publications, 1982. 221p. †

Concentrates on the growing methods employed in a solar greenhouse environment. Includes information on the proper selection, layout, propagation and harvesting of crops. Discusses growing flowers, dealing with pests, and hydroponics.

R 621.47
The Solar Age resource book. Edited by Martin McPhillips. Everest House, 1979. 242p. †

A handbook and buyer's guide to many aspects of solar energy.

728
Solar dwelling design concepts: a basic guide to solar heating and residential design. Drake Publishers, 1977. 144p.

VC 697.78
Solar frontier. Bullfrog Films, 1977. 24 min. Color. †

Three solar houses in the Canadian snowbelt are featured: one active, one passive, and one hybrid. They were all built for average income families. (Credits: Frances and Peter Mellen.)

631.54
The solar greenhouse book. Edited by James C. McCullagh. Rodale, 1978. 328p.

Explains how to design, construct and manage a solar greenhouse. Includes sun charts.

690.89
Solar growing frame: grows fresh vegetables year round using only solar energy. Edited by Ray Wolf. Rodale, 1980. 80p. †

Step-by-step guide to building a solar growing frame. Includes 10 pages of blueprints.

R 697.78
Solar products specification guide. SolarVision, Inc., 1983. 388p. †

Detailed product descriptions, including installation and maintenance requirements, price, etc. Diagrams and photographs of products are included, with an index to new products and a guide to manufacturers.

VC 697.78
Solar promise. Bullfrog Films, 1979. 28 min. Color. †

Emphasizes space and water heating as the most appropriate use of the sun's energy. Explains the difference between passive and active systems and stresses the value of passive systems and their cost effectiveness. (Credits: Written, directed, and edited by Tom Putnam, anchored by Donald Aitken; produced by Henry Mayer.)

697.78
Solar reality: a report to the Iowa Energy Policy Council. Community Action Research Group, 1979. 31p. †

Descriptive accounts of 10 buildings in Iowa, ranging from homes to a bank that utilize solar methods for heat.

697.78
Solar remodeling. Editors of Sunset Books and Sunset Magazine. Lane, 1982. 96p. †

A nontechnical examination of solar fundamentals. Guides the reader through the planning stages of choosing a passive solar system, and concludes with examples of successful projects and project ideas. There is a special section on common pitfalls.

643.1
Solarizing your present home: practical solar heating systems you can build. Edited by Joe Carter. Rodale, 1981. 671p. †

Homeowner's guide to heating and cooling the entire house using solar principles. Includes a chapter on existing homes that have been retrofitted.

697.78
Spetyang, Irwin. Your home's solar potential: the do-it-yourself solar survey. Edmond Scientific Co., 1976. 60p. †

An introduction to America's solar industry and a self-help guide to rating the solar potential of one's home.

621.31244
Stouffer, Rick. Designing small photovoltaic power systems. Monegan Ltd., 1982. 29p. †

A how-to manual for designing systems which convert sunlight into electricity. Includes help on determining energy needs, cells and panels, battery storage, power handling equipment, array tilt, installation, maintenance, tax incentives and a design example.

697.78
Strickler, Darryl J. Passive solar retrofit. Van Nostrand Reinhold, 1982. 173p. †

How to assess the feasibility of applying solar heating/cooling features to your home and determine when professional help is needed. Includes a chapter on incorporating life styles and decorating tastes into solar retrofitted structures. Has a sample subcontractor's agreement form.

635.9
Sunset editors. Greenhouse gardening. Lane, 1976.

697.78
Sunset homeowner's guide to solar heating. Lane, 1978. 96p. †

Introduces basic types of solar heating and discusses passive and solar houses at work. Includes a glossary of solar terms.

696.6
Sussman, Art. Handmade hot water systems. Garcia River Press, 1978. 90p. †

Describes water heaters that use wood and the sun. Contains a section on plumbing and special applications of the system, such as use in heating swimming pools and hot tubs.

697.78
Temple, Peter L., and Jennifer A. Adams. Solar heating: a construction manual. Chilton, 1981. 280p.

690.8
Wahfeldt, Bette Galman. All about greenhouses with 15 build-your-own plans. TAB, 1981. 463p.

697.78
Watson, Donald. Designing and building a solar house: your place in the sun. Garden Way, 1977. 281 p. †

An in-depth discussion of active and passive solar heating systems, concentrating on designing buildings for certain climates. Includes an alphabetical listing of solar designers, architects and engineers.

R 621.381542
Watts, R. L., S. A. Smith and R. P. Mazzucchi. Photovoltaic product directory and buyers guide. Van Nostrand Reinhold, 1982. †

A comprehensive compilation of products, applications, and manufacturers that can be purchased off-the-shelf or ordered from catalogs. Provides detailed descriptions of each type of product.

697.78
Wells, Malcolm. How to buy solar heating without getting burnt! Rodale, 1978.

Illustrates home insulation and other energy saving techniques with helpful sections on legal contracts and a list of manufacturers of solar collectors.

621.47
Williams, James Richard. Solar energy: technology and applications. Ann Arbor Science Publishers, 1977. 176p.

697.78
Wolf, Ray. Solar air heater: mounts on any sunny wall, turning solar energy into free heat for your home. Rodale, 1981. 64p. †

Guide to construction and instal-

lation of a home solar air heater. Blueprints included.

728
Wright, David. Natural solar architecture: a passive primer. Van Nostrand Reinhold, 1978. 245p. †

Explains the nature of passive solar energy and how to store and utilize it in homes. Includes a metric conversion chart.

SPECIAL

MATERIALS FOR CITY PLANNERS, REFERENCE, MISCELLANEOUS ITEMS

352.94
Allen, Edward H. Handbook of energy policy for local governments. Lexington Books, 1975. 236p.

Offers detailed, step-by-step, practical suggestions on how to handle commonly encountered energy supply problems.

333.79
Brooks, Sarah Osgood. Guide to reducing energy use, budget costs: Volume II: Local energy management program. National Association of Counties Research, Inc., 1976. 67p. †

Covers energy conservation in existing buildings, new buildings, employee transportation programs, and street lighting systems. Also discusses procurement and energy resource recovery and includes a solar renewable energy resource guide.

R 333.79
Consumer energy atlas. Prepared by Fraser Associates for U.S. Dept. of Energy. U.S. Govt. Printing Office, 1980. 1980. 251p. †

Provides a convenient source of information on key contacts for consumers concerned with energy in the U.S. In addition to being a directory of persons and agencies, it also provides answers to the most often asked energy-related questions from energy conservation to nuclear power.

381.3
Consumer products advertised to save energy--let the buyer beware. By the Comptroller General of the United States, Report to the Congress. U. S. General Accounting Office, 1981. 70p. †

Looks at the types of products and claims in the market place, evaluates the potential of energy-saving claims to mislead consumers and assesses the effectiveness of Federal and State efforts to protect consumers from inaccurate and misleading claims.

R 333.7
County energy management strategies: the potential for economic redevelopment in Story County. Mid-Iowa Community Action, Inc. 1982 . 48p.

The cost of energy in Story County is described. Conservation and renewable resource technologies are seen as solutions that are likely to decrease individual and community energy costs, be technically feasible, and provide benefits such as employment, economic growth, and environmental protection.

R 697
Directory of certified unitary air conditioners, unitary air source heat pumps, sound rated outdoor unitary equipment, solar collectors. Air-conditioning and Refrigeration Institute.

629.2
Energy education resource guide for driver education. Sponsored by the Iowa Energy Council in cooperation with Iowa Department of Public Instruction. 1983. 74p. †

Discusses vehicle selection, maintenance and operation as well as environmental conditions and traffic strategies that promote energy savings. Designed as a class guide.

333.73
Erley, Duncan, and David Mosena. Energy-conserving development regulations: Current practice. American Planning Assoc., 1980. 58p. †

Examines recent experiences of local governments that have adopted new development regulations or have amended existing regulations to promote energy conservation.

333.73
Erley, Duncan, David Mosena, and Efraim Gil. Energy-efficient land use. American Planning Assoc., 1979. 25p. †

Discusses recent literature on energy conservation through land-use

planning.

333.914
Goodbye to the flush toilet: water-saving alternatives to cesspools, septic tanks, and sewers. Edited by Carol Hupping Stoner. Rodale, 1977. 285p.

Presents several alternatives that save water, and gives work instructions and illustrations on building composting privies.

R 016.3337
Harrah, Barbara K. Alternate sources of energy: a bibliography of solar, geothermal, wind, and tidal energy, and environmental architecture. Scarecrow, 1975. 201p.

R 621
Hunt, V. Daniel. Energy Dictionary. Van Nostrand Reinhold, 1979. 518p. †

Concise definitions cover: conventional sources of fossil energy; nuclear, solar, geothermal, ocean and wind energy ; environmental and conservation areas; and major scientific physical concepts, processes and technological advances.

R 621.47
Hunt, V. Daniel. Solar energy dictionary. Industrial Press, 1982. 411p. †

Definitions encompass processes, products, and renewable solar energy technologies.

R 628
National Sanitation Foundation. NSF Standards. Author.

Covers various NSF requirements for equipment, construction, maintenance, and operating practice used to establish public health and safety standards.

R 333.79
A new prosperity, building a sustainable energy future: the SERI solar conservation study. Brick House, 1981. 454p. †

A landmark study by the Solar Energy Research Institute which offers a plan for reducing the U.S.'s energy consumption by 25% to help achieve the goal of energy independence.

690.869
Passive solar: subdivisions, windows, underground. Edited by Herb Wade, Jeffrey Cook, Ken Labs, and Steve Selkowitz. American Solar Energy Soc., 1983. 256p. †

The section on subdivisions covers the development of passive solar applications, and discusses the mass residential market. "Windows" covers all practical aspects of using glass to collect solar rays, while the last section discusses designing, building and living in underground homes.

R 333.79
Report on an energy and water policy plan for the city of Ames, Iowa. By the Energy and Water Policy Plan Steering Committee. City, 1982. 85p. †

Describes development of an energy and water policy plan for Ames, and details recommendations put forth by the Policy Plan Steering Committee. Appendices include City Council Resolution #81-262, State Rules on Life-Cycle Cost Analysis, and a paper on the Life-Cycle Cost Model.

333.7
Ridgeway, James. Energy-efficient community planning: a guide to saving energy and producing power at the local level. JG Press, 1979. 221p.

Discusses innovative alternatives to energy conservation in community planning, including an examination of the Ames solid waste recovery system.

363.62
Seevers, O. C. Efficient electric utility operation. Fairmont, 1982. 177p. †

A step-by-step guide to new approaches to streamline and upgrade electric utility operations, written for electric utility engineers, managers, and superintendents.

693.832
Shurcliff, William A. Superinsulated houses and double-envelope houses. Brick House, 1981. 182p. †

A complete set of blueprints for an 896-square-foot superinsulated house, which would cost approximately $38,000 to build, not including land, contractor's overhead and profit. The cost to heat this house should be only $100 annually, even in the most severe U.S. climate.

333.79
Thumann, Albert. Plant engineers and managers guide to energy conservation: the role of the energy manager. 2nd ed. Van Nostrand Reinhold, 1983. 323p. †

Describes how to reduce energy consumption in both existing and new facilities. Detailed tables evaluate furnace efficiency, heat recovery, pump and piping factors, and plant architecture.

333.79
Toward a national strategy for energy self-sufficiency: working paper. Kentucky Dept. of Energy, 1974. 19p. †

Discusses principles which could serve as the foundation for a national energy strategy.

WIND POWER

621.45
Eldridge, Frank R. Wind machines. 2d ed. Van Nostrand Reinhold, 1980. 214p. †

Provides a survey of the history, taxonomy, present viability, and potential of various types and sizes of wind machines.

VC 333.79
[Energy conservation] Wind power in Iowa. Iowa State University, 1980. 5 min. Color. †

Discusses the factors and problems involved in using a windmill in Iowa. A windmill being tested at I.S.U. is shown, along with various ways of storing wind power.

VC 621.45
Energy savers, wind energy. Reviewed by Dr. Leo Soderholm and Dr. Paul Waite. Des Moines, Iowa: IPBN, 1980. †

Reviews history, current applications and future of wind energy. Describes types of wind generators and how they work.

621.312
Hackleman, Michael. Homebuilt, wind-generated electricity handbook. Earthwind, 1975. 194p. †

Practical, well illustrated guide to selecting, building and installing a wind-generated machine.

621.312
Hackleman, Michael A. Wind and windspinners: A nuts and bolts approach to wind-electric systems. Earthmind, 1974. 115p. †

Explains the mechanical and technical details that affect wind-generated electric systems. Contains wind m.p.h./electricity conversion sheets.

VC 621.321
Harness the wind. Oley, Pa. : Bullfrog Films, 1978. 12 min. Color. †

A concise overview of the history and potential of wind power. Future designs are included. (Credits: Sidney Goldsmith and the National Film Board of Canada.)

621.45
Hirshberg, Gary. Water pumping windmill book. Brick House, 1982. 141p. †

Explains how a water pumping windmill is constructed and operated. Well illustrated, with an appendix of useful resources.

621.312
Home wind power. U.S. Dept. of Energy. Garden Way, 1981. 203p.

Explains how to select a site, and how to install, monitor, and maintain a wind energy system. Includes information on legal wind rights and insurance liabilities.

621.45
Hunt, V. Daniel. Windpower: a handbook on wind energy conversion systems. Van Nostrand Reinhold, 1981. 610p. †

Comprehensive collection of windpower information. Contains performance data on both large and small-scale systems, and information on buying and installing wind energy conversion systems.

621.312
Kovarik, Tom. Wind energy. Domus, 1979. 150p.

621.312
Marier, Donald. Wind power for the homeowner: a guide to selecting, siting, and installing an electricity-generating wind power system. Rodale, 1981. 368p. †

Considerations for installing a wind power electric system, with tables on average monthly wind speeds for various cities, comparison charts for various heights of wind systems, and information on characteristics of manufacturer's models.

621.45
Naar, Jon. The new wind power. Penguin Books, 1982. 251p.

621.45
Park, Jack. The wind power book. Cheshire, 1981. 253p. †
Overview of the varied applications of wind energy. Discusses legal and social issues related to its use.

621.312
Park, Jack. Wind power for farms, homes, and small industry. U.S. Govt. Printing Office, 1978. †
Discusses site selection and wind power variations with height and local terrain. Presents average wind power distribution in the U.S.

621.45
Simmons, Daniel M. Wind power. Noyes Data Corp., 1975.
Presents an overview of the behavior of wind and its application for energy use, with pointers on site selection and how other countries use wind for power.

621.45
Torrey, Volta. Wind-catchers: American windmills of yesterday and tomorrow. Greene Press, 1976. 226p.
Describes the windmill's history and present uses with a look at future refinements.